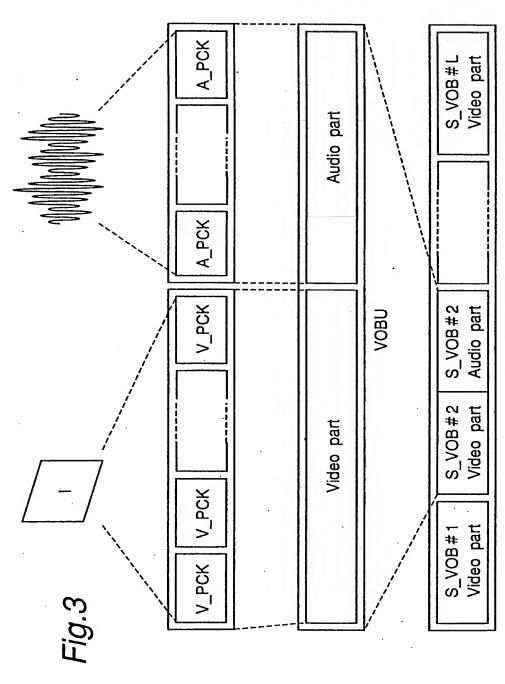
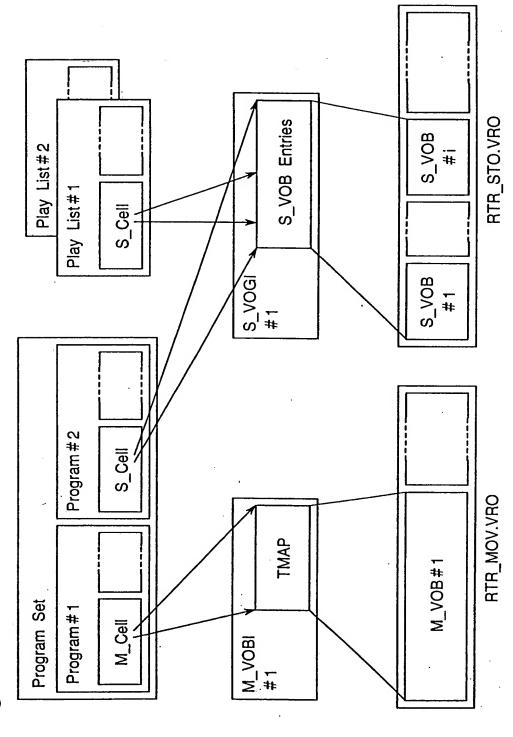


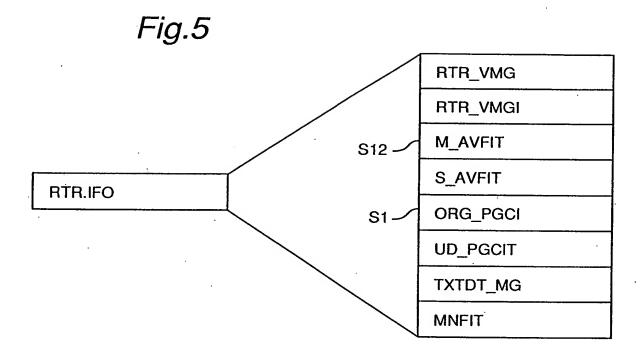
A_PCK M_VOB#N VOB#M RTR_MOV.VRO M_VOB#2 M_VOB#1



RTR_STO.VRO

Fig.4





							A)		
512byte	12bytes	4bytes	12bytes	4bytes	2bytes	94bytes	2bytes	1byte	1byte	60bytes	4bytes	4bytes
VMGI_MAT	VMG_ID	RTR_VMG_EA	reserved	VMGI_EA	VERN	reserved	TM_ZONE	STILL_TM	CHRS	reserved	M_AVFIT_SA	S_AVFIT_SA
			BTB VMGI	VMGI MAT	Tago Id							
	Figh	9.50	·	RTR_VMG	RTR_VMGI	M_AVFIT	S_AVFIT	ORG_PGCI	UD_PGCIT	TXTDT_MG	MNFIT	

4bytes 288byte

reserved

4bytes 4bytes

> TXTDT_MG_SA MNFIT_SA

8bytes

reserved

4bytes

ORG_PGCIT_SA

UD_PGCIT_SA

Fig.7

	Γ		1	Γ	T
		P8		90	
		69		b 1	
		p10		p5	
		b12 b11 b10	ved	p3	ersion
		b12	reserved	p4	Book version
		b13		p2	
		b14		9q	-
VERN		b15		p2	

TM_ZONE	111					,	
b15	b14	b14 b13	b12	b11 · b10	b10	69	P8
	TZ_TY	_TY		·	TZ_OFF	TZ_OFFSET[118]	
p2	pe	p5	b 4	p3	p2	p1	pq
		·	TZ_OFFSET[70]	SET[70]			

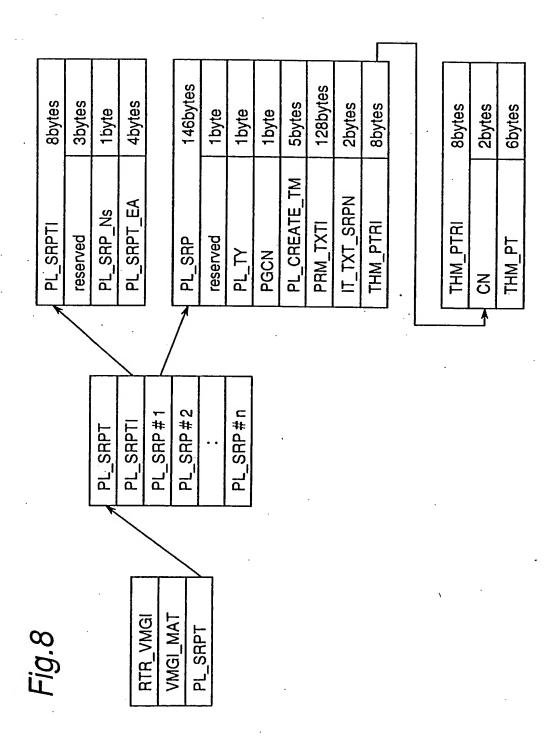


Fig.9

	09	
	b1	reserved
	P2	rese
	£d	
	. Pq	
	99	TY1
	b6	PL_TY1
لاً لل	p2	

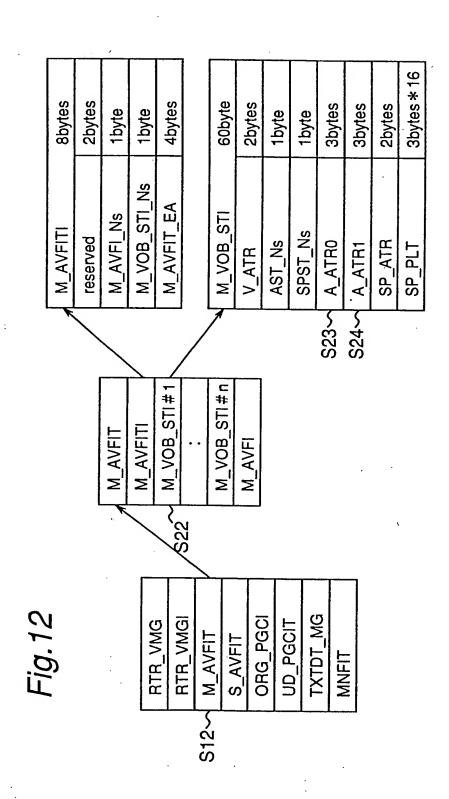
REA	PL_CREATE_TM						- 1
p39	. b38	b37	989	989	b34	p33	p32
			Year	Year[136]			
b31	p30	b29	p28	P27	p26	b25	b24
		Year	Year[50]	·		Mont	Month[32]
b23	b22	b21	P20	b19	b18	b17	b16
Mont	Month[10]			Day[40]	-		Hour[4]
b15	b14	b13	b12	b11	b10	69	p8
	Hour	Hour[30]			Minut	Minute[52]	
b7	b6	p2	b4	рЗ	b2	þ1	09
Minut	Minute[10]			Second[50]	d[50]		

Fig. 10

PTM desc	PTM describing format	at					
b47	b46	b45	p44	p43	b42	p41	p40
			PTM_ba	PTM_base[3124]			
p39	b38	b37	989	b35	b34	p33	p32
,			PTM_ba	PTM_base[2316]	·		•
b31	p30	p29	b28	b27	p26	b25	b24
			PTM_ba	PTM_base[158]			
. b23	b22	b21	b20	b19	b18	b17	b16
			PTM_b	PTM_base[70]	•		
b15	b14	b13	b12	b11 .	b10	69	8q
			PTM_exte	PTM_extension[158]			
b7	99	p2	b4	p3	b2	b1	09
			PTM_exte	PTM_extension[70]			

Fig. 11

TN des	cribing	S_VOB_ENTN describing format					
-							
b46 b45	b45		b44	b43	b42	b41	p40
			S_VOB_ENTN	ENTN			
b38 b37	b37		929	p35	b34	P33	p32
			rese	reserved			·
b30 b29	b29		p28	b27	b26	b25	b24
			reserved	rved			
. b22 b21	b21		b20	b19	b18	b17	b16
			reserved	rved			
b14 b13	b13		b12	b11 .	b10	6q	8q
			reserved	ved			
b6 b5	p2		p4	b3.	P2	p1	09
			reserved	rved			



	, p8	Application Flag	09	·		b16	Application Flag	p8
	6q	Applicat	p1	reserved		b17	Applicat	69
	b10	Aspect ratio	p2			b18	Préference Flag	b10
	b11	Aspec	p3	no		b19	Préferer	b11
	b12	TV system	p4	Video resolution		p20	reserved	b12
	b13	∑ 	p5	Vic		b21	epou	b13
	b14	mpression	99	line21_ switch_2	1	b22	Audio coding mode	b14
V_ATR	b15	Video compression	2 9	line21_ switch_1	A_ATR0/1	b23	Audi	b15.

9

5

p2

p3

b4

p2

99

p2

ţ

Quantization/DRC

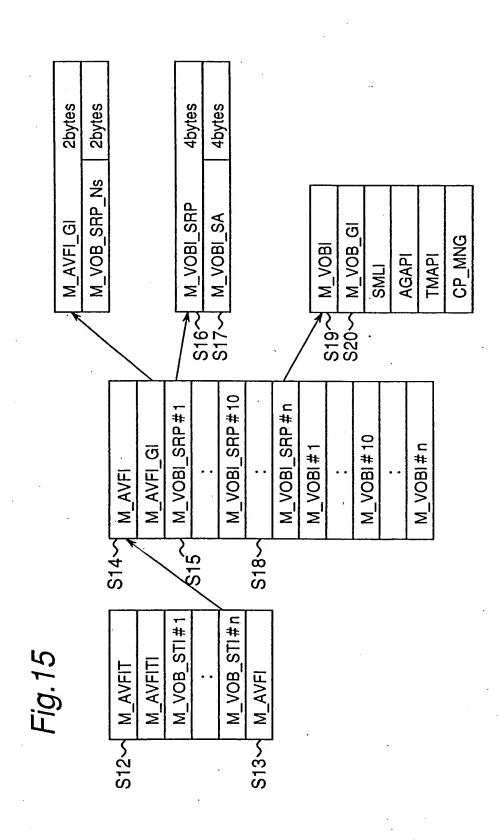
Bitrate

Number of Audio channels

Fig. 14

SP_ATR							
b15	b14		b13 b12 b11	b11	b10	69	P8
		reserved	rved			Applicat	Application Flag
p2	99	p2	p4	P3	b2	p1	P0
			rese	reserved			

SP_PLT							
b23	b22	b21	b20	b19	b18	b17	b16
			Luminanc	Luminance signal(Y)			
b15	b14	b13	b12	b11	· b10	69	9q
		Color	Color difference signal(Cr=R-Y)	signal(Cr=	R-Y)		
b7	pe	p2	P 4	£q	p2	1 0	PO
		Color	Color difference signal(Cb=B-Y)	signal(Cb=	-B-Y)		



	M_VOB_GI	21byte
0 + ZiJ	VOB_TY	2bytes
7.19.10	/ VOB_REC_TM	5bytes
	/ VOB_REC_TM_SUB	1byte
INCV M	S21~ M_VOB_STIN	1byte
S20~ M VOB GI	VOB_V_S_PTM	6bytes
ᆚ	VOB_V_E_PTM	6bytes
AGAPI		
INAME	SMLI	12byte
SINM OF	VOB_FIRST_SCR	6bytes
	PREV_VOB_LAST_SCR	6bytes
	AGAPI	16bytes
	VOB_A_STP_PŢM	6bytes * 2
	VOB_A_GAP_LEN	2bytes *2
	CP_MNGI	2bytes
×	CPG_STATUS	1byte
-	CPGI	1byte

Fig. 17

VOB. TY					·		
b15	b14	b:13	b12	b12 b11 b10	p10	69	P8
TE	A0_ST	A0_STATUS	A1_ST	A1_STATUS	reserved	¥	APS
. 2q	99	5 q	b 4	£q	p2	p1	P0
SML_FLG A0_GAP_LOC	A0_GA	P_LOC	A1_GA	A1_GAP_LOC	,	reserved	

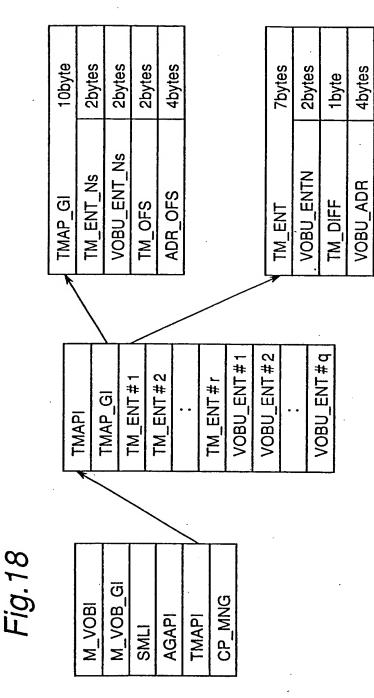


Fig. 19

	T	T	т	T			T
		b16		89	VOBU_SZ(upper)	09	
		b17		69	VOBU_	p1	
		b18		b10		b2	
		b19	1STREF_SZ	b11		p3	Z(lower)
		. b20	1STR	b12	VOBU_PB_TM	b 4	VOBU SZ(lower)
		b21		b13	VOBU	b 5	·
T		b22		b14		pe	
VOBU_ENT		b23		b15		b7	

	·		
8bytes 1byte	1byte 1byte 1byte	4bytes 54bytes 2bytes 2bytes	2bytes 3bytes * 16
S_AVFIT!	reserved S_VOB_STI_Ns reserved	S_AVFIT_EA S_VOB_STI V_ATR OA_ATR	SP_ATR SP_PLT S_AVFI S_AVFI A_VOGI_SRP#1 : A_VOGI_SRP#n : S_VOGI#1 : S_VOGI#1
		S_AVFITI S_VOB_STI_#1	S_VOB_STI#n
Ì	Fig.20	RTR_VMGI M_AVFIT S_AVFIT	ORG_PGCI UD_PGCIT TXTDT_MG MNFIT
· · · · · · · · · · · · · · · · · · ·			

Fig.21

		9q	reserved	po	,
		69	rese	p1	reserved
		b10	Aspect ratio	b2	
·		b12 b11 b10	Aspec	b3	uo
		b12	/stem	b4	Video resolution
	,	b13	TV system	b5	Vic
		b14 .	compression mode	99	reserved
V_ATR		b15	Video compression mode	p2	rese

OA_ATR							
b15	b14	b13	b12	b11 · b10	. b10	69	P8
Aud	Audio coding mode	node		reserved		Applicat	Application Flag
b7	99	5 q	p4	p3	p5	p1	90
Quan.	Quan./DRC	SJ .	S	N N	mber of A	Number of Audio channels	sle

Fig.22

	P8	Application Flag	09	
	69	Applicat	b2 b1	
	b10		b2	
	b12 b11 b10		b3	reserved
	b12	rved	p4	rese
	b13	reserved	b5	
	b15 b14		pe	
SP_ATR	b15		p2	

<u> </u>		Ι	l			Γ
	b16		8q		09	
	b17		69		b1	
	b18		b10	R—Y)	p2	B-Y)
	b19	Luminance signal(Y)	b11	Color difference signal(Cr=R-Y)	p3	Color difference signal(Cb=B-Y)
	b20	Luminanc	b12	difference	p4	difference
	b21		b13	Color	p2	Color
	b22	•	b14		9q	
SP_PLT	b23		b15		p2	

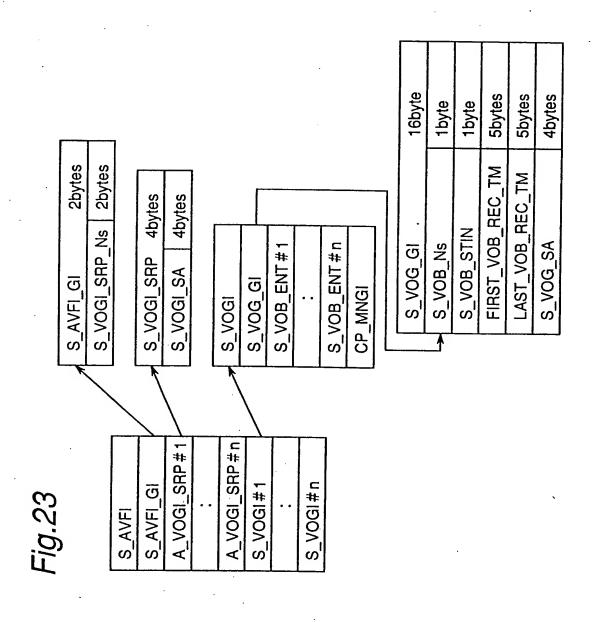


Fig.24

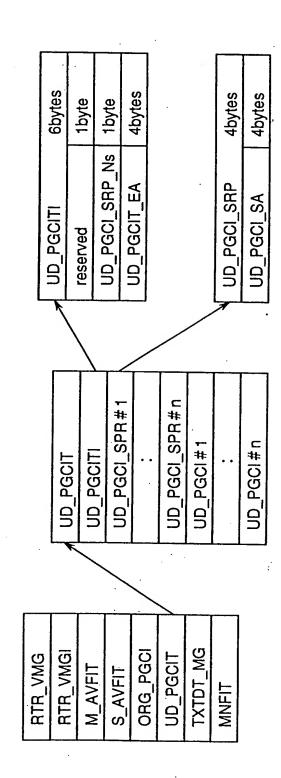
S_VOB ENT (TYPE A)	2bytes
S_VOB ENT_TY	1byte
V_PART_SZ	1byte

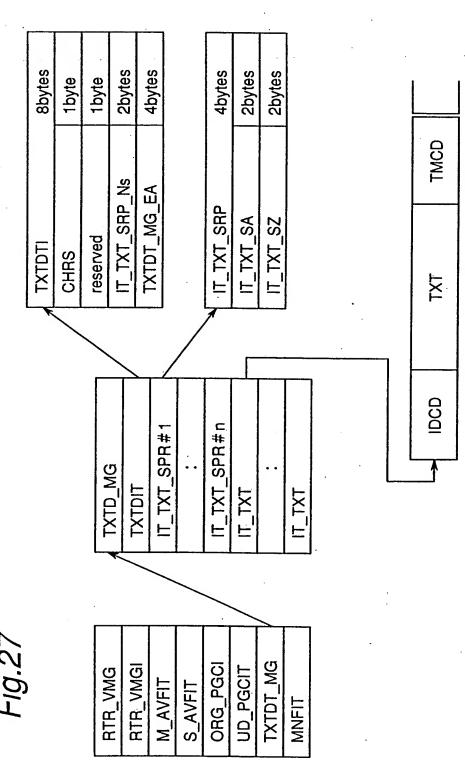
S_VOB ENT (TYPE B)	6bytes .
S_VOB ENT_TY	1byte
V_PART_SZ	1byte
A_PART_SZ	2bytes
A_PB_TM	2bytes

Fig.25

-		Г	Τ.	16
			0q	SPST_Ns
			p1	
			p2	ved
			p3	reserved
			p4	
			p5	TE
	VT_TY		99	
	S_VOB_ENT_TY		P2	MAP_TY

Fig.26





8bytes 2bytes **6bytes** THM_PTRI THM_PT 공 142bytes 128bytes 4bytes 2bytes 2bytes 2bytes 8bytes 4bytes 1byte 1byte 4bytes 1byte 1byte IT_TXT_SRPN CI_SRP_Ns PRM_TXTI THM_PTRI PGC_GI reserved reserved PG_Ns CI_SRP PG_TY C_Ns CI_SA PG 53 84 S6~ ORG_PGCI/UD_PGCI Fig.28 Cl_SRP#n CL_SRP#1 PGC_GI PGI#m PGI#1 C#10 CI#1 **S**22 S57

Fig.29

	PO	
	td.	
	b2	
	рз	reserved
	p4	
	b5	
	9q	
PG_TY	P2	Protect

18bytes 2bytes 2bytes **6bytes 6bytes** 8bytes 2bytes 2bytes 1byte 1byte 1byte 1byte 1byte S_S_VOB_ENTN M_VOBI_SRPN S_VOGI_SRPN C_V_S_PTM C_V_E_PTM C_EPI_NS C_EPI_NS reserved M_C_GI S_C_GI reserved S11 M_C_EPI#n M_C_EP!#1 S_C_EPI#n S_C_EPI#1 M_C_GI SCGI ∑ Z လ ORG_PGCI/UD_PGCI Fig.30 CI_SRP#n CI_SRP#1 PGC_GI PGI#m PGI#1 CI#IO C # 1

1byte

E_S_VOB_ENTN

Fig.31

	09	
	p1	
reserved	b2	
	p3	
	p4	
	p2	
C_TY1	9q	
	b7	C_T√

Fig.32

M_C_EPI (Type A)	7bytes
EP_TY	1byte
EP_PTM T	6bytes

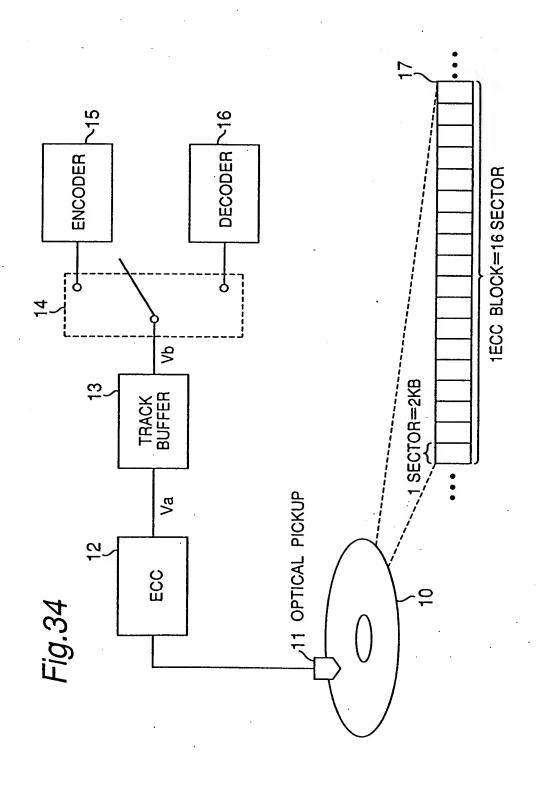
ו		· · · · · ·	1.0	<u>. </u>
	135bytes	1byte	6bytes	128bytes
	M_C_EPI (Type B)	EP_TY	. EP_PTM	PRM_TXTI

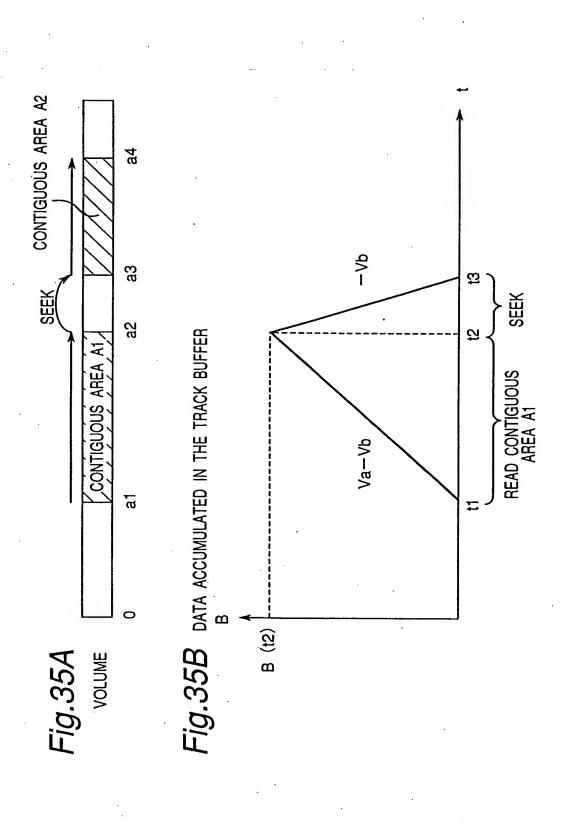
S_C_EPI (Type A)	7bytes
EP_TY	1byte
S_VOB_ENTN	6bytes

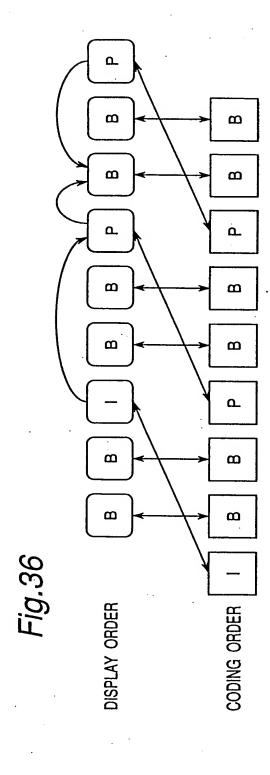
S_C_EPI (Type B)	135bytes
EP_TY	1byte
S_VOB_ENTN	1byte
PRM_TXTI	128bytes

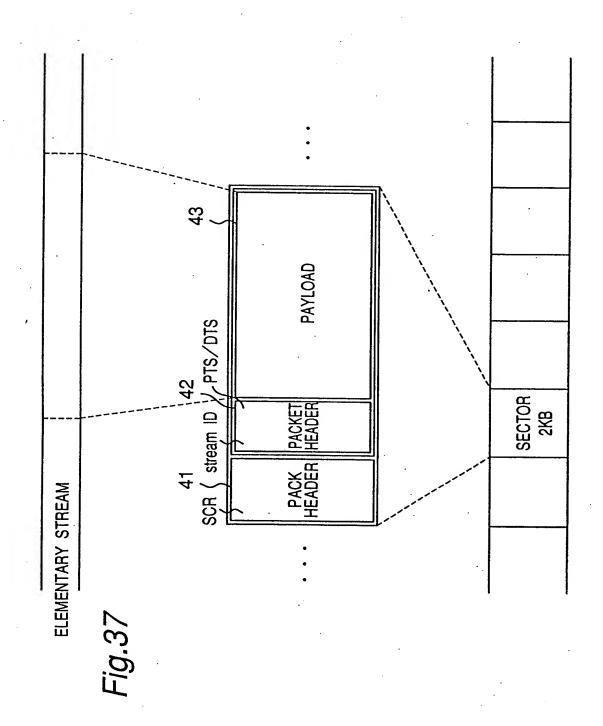
Fig.33

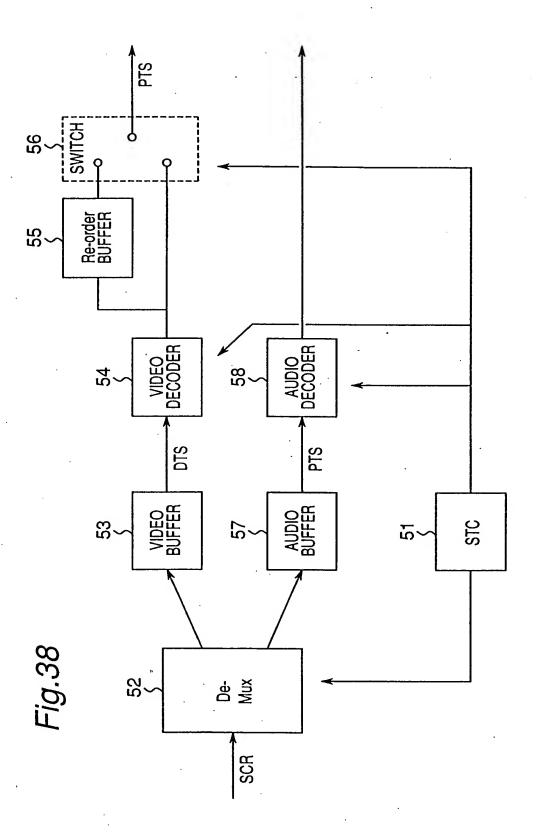
EP_TY1							
b7	9q.	p2	p4	£q	P2	b1	0 q
EP_TY1	TY1		-	rese	reserved		

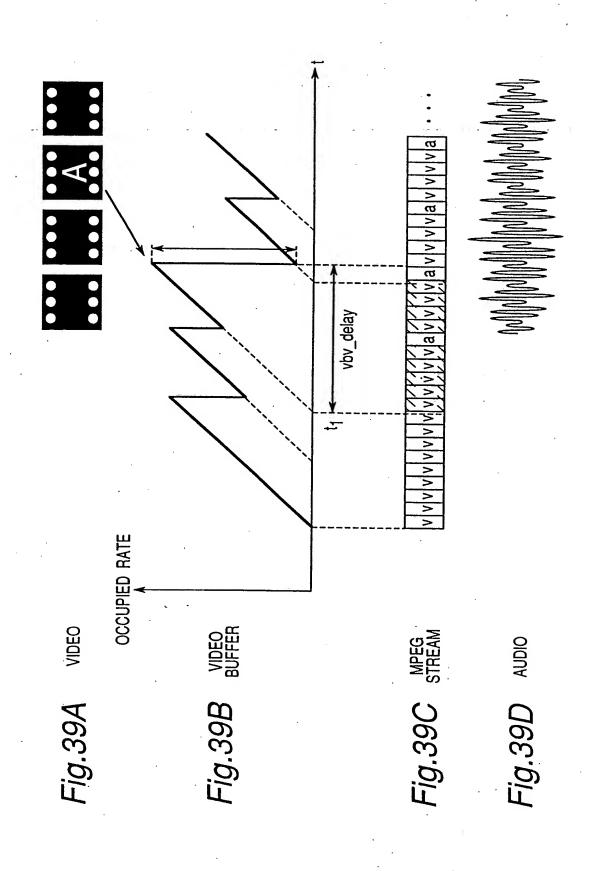


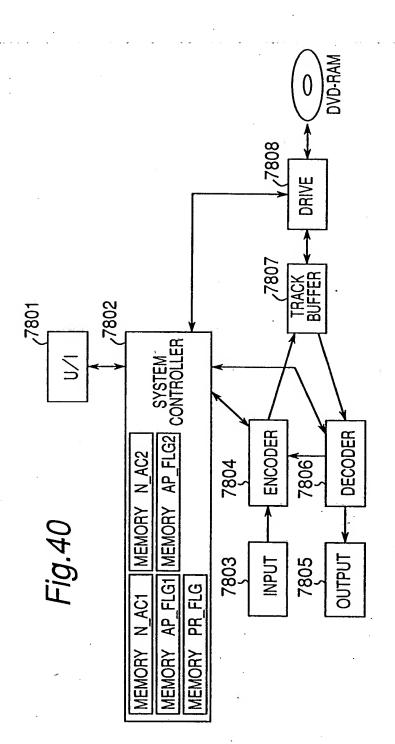












				·····		0 ••		
			i.					
				•				
•								-
		HANNEL 1	AUDIO CHANNEL 1 AUDIO CHANNEL 2	0 0 0			·	
,		AUDIO CHANNEL 1	AUDIO C AUDIO C	·			•	٠
1	EAM	EAM 1	EAM 2					
Fig.41	VIDEO STREAM	AUDIO STREAN	AUDIO STREAM		•			

.

Fig. 42A AV STREAM 1

Fig. 42B AV STREAM 2

(VIDEO STREAM	
ALIDIO CTREAM	AUDIO CHANNEL 1 (MAIN)
(AUDIO STREAM)	AUDIO CHANNEL 2 (SUB)

Fig. 42C AV STREAM 3

AUDIO STREAM 2 AUDIO CHANNEL 1 (LEFT STEREO) (SUB)	AUDIO STREAM 1	AUDIO CHANNEL 1 (MONAURAL)	
SINCAIN SAUDIO CHANNEL 1 (RIGHT STEREO)	1	AUDIO CHANNEL 1 (LEFT STEREO)	(MAIN)
	_	AUDIO CHANNEL 1 (RIGHT STEREO)	(SUB)

Fig.43

AV STREAM 1

VIDEO STREAM

AUDIO CHANNEL 1 (LEFT STEREO) AUDIO CHANNEL 2 (RIGHT STEREO) **AUDIO CHANNEL 1** AUDIO STREAM 2 **AUDIO STREAM 1**

Number of Audio channeles=0000b (MONAURAL) Preference Flag=00b (INAPPLICABLE) Application Flag=00b (INAPPLICABLE) **ATR0**

Preference Flag=00b (INAPPLICABLE)
Application Flag=00b (INAPPLICABLE)
Number of Audio channeles=0000b (STEREO) **ATR1**

Fig.44

AV STREAM 2

VIDEO STREAM

AUDIO CHANNEL 1 (MAIN) AUDIO CHANNEL 2 (SUB) **AUDIO STREAM 1**

ATR0

Preference Flag=01b (PREFER AUDIO CHANNEL 1)
Application Flag=11b (SUB AUDIO IS CONTAINED)
Number of Audio channeles=1001b (DUAL MONAURAL)

ATR1

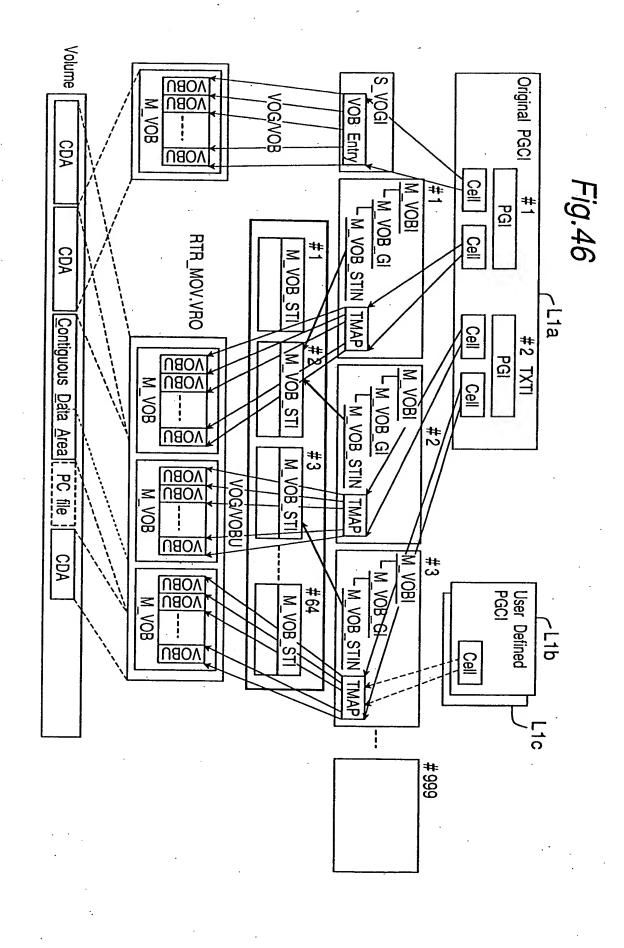
(NOT CONTAINED)

Fig.45 AV STREAM 3

VIDEO STREAM	
AUDIO STREAM 1	
(ALIDIO STREAM & AUDIO CHANNEL 1 (LEFT STEREO)	(MAIN)
AGDIO STITCAIN AUDIO CHANNEL 2 (RIGHT STEREO)	(SUB)
CM	FOREIGN FILM

ATR0 Preference Flag=00b (INAPPLICABLE)
Application Flag=00b (INAPPLICABLE)
Number of Audio channeles=0000b (MONAURAL)

Application Flag=01b (PLURAL AUDIO CHANNEL CONFIGURATIONS ARE MIXED) Number of Audio channeles=1001b (MAIN MODE IS DUAL MONAURAL) Preference Flag=10b (PREFER AUDIO CHANNEL 2) ATR1

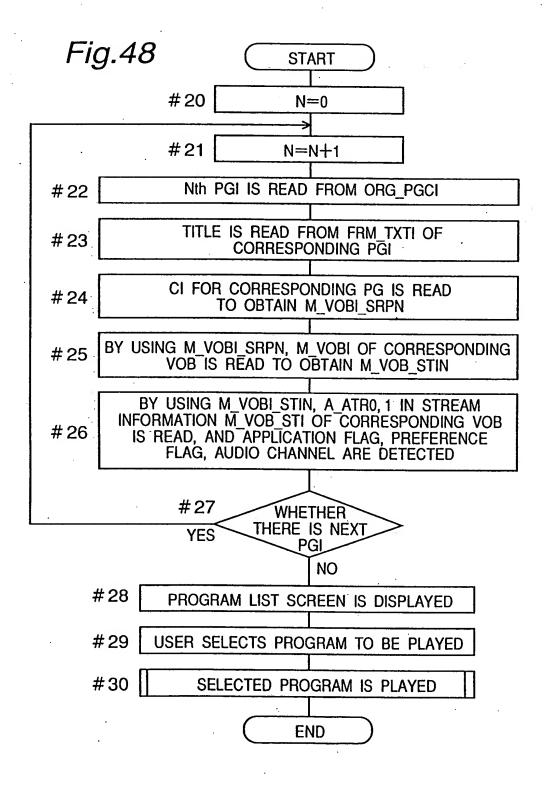


END

CELL INFORMATION CL CORRESPONDING TO THE RECORDED VOB AND PROGRAM INFORMATION PGI ARE GENERATED AND APPENDED

TO END OF ORIGINAL PROGRAM CHAIN INFORMATION ORG_PGCI

#11



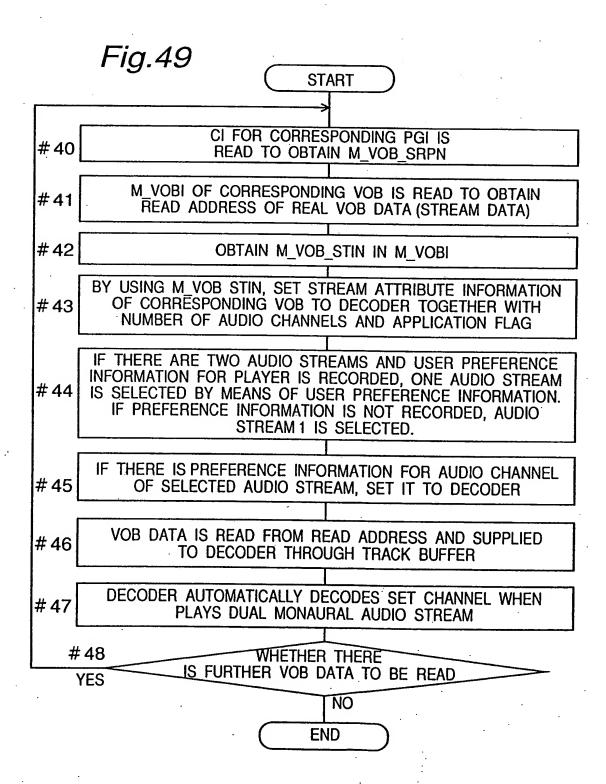
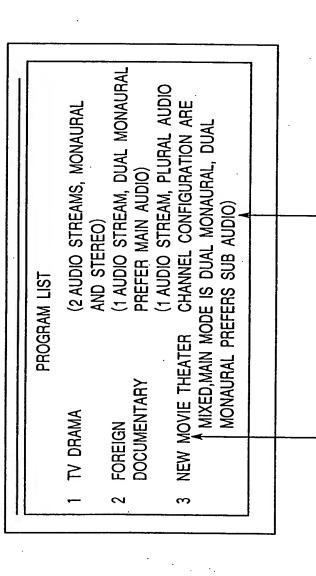


Fig.50



NAMES INDICATE EACH PROGRAM
(DISPLAYED BY USING PRIMARY TEXT IN INFORMATION OF EACH PGI IN DISK) EA

INFORMATION ABOUT AUDIO STREAM FOR AV STREAM INCLUDED IN EACH PROGRAM (GENERATED AND DISPLAYED BY USING INFORMATION OF PREFERENCE FLAG, APPLICATION FLAG AND NUMBER OF AUDIO CHANNELS IN ATORO/ATR1)